

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MLRA REGION 11
Indianapolis, Indiana 46278

FIRST AMENDMENT
TO THE
FEBRUARY 1984 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
SWITZERLAND COUNTY, INDIANA

SEPTEMBER 2006

This amendment results from digitizing the Soil Survey data for Switzerland County, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003.

AMENDMENT NO. 1

Page 3 – Changes to the Soil Correlation Legend -

Change the approved map unit name of the *EdF2* map unit:

From: Eden flaggy silt loam, 25 to 50 percent slopes, eroded

To: Eden flaggy silty clay, 25 to 50 percent slopes, eroded

Page 4 – Additions to the Soil Correlation Legend -

Add the following map units:

<u>Field symbols</u>	<u>Field map unit name</u>	<u>Publication symbol</u>	<u>Approved map unit name</u>
W	Water	W	Water
Water	Water	W	Water
W4	Water > 40 acres	W	Water
W	Water < 40 acres	W	Water

The "W - Water" map unit is added for water areas more than 1.43 acres in size.

Page 7–Replace the Conventional and Special Symbols Legend from the 1984 Correlation, with the attached Indiana Official 37As' for Compilation, Digitizing, and DMF, Revised June 30, 2004.

Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps for Switzerland County:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.

<u>Feature</u>	<u>Name</u>	<u>Description</u>
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 0.2 to 2 acres.
GRA	Gravelly spot	Surface layer has more than 35 percent, by volume, of rock fragments that are mostly less than 3 inches in diameter. Typically 0.2 to 2 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
MPI	Mine or quarry	An open excavation from which soil and underlying material are removed and bedrock is exposed. Also denotes surface openings to underground mines. Typically 0.2 to 2 acres.
ROC	Rock outcrop	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock or where "Rock outcrop" is a named component of the map unit. Typically 0.2 to 2 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps:

<u>Label</u>	<u>Symbol ID</u>	<u>Name</u>	<u>Description</u>
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres.

Page 12 – Revise and add the following to the Notes to Accompany Classification and Correlation

Cincinnati Series

The base saturation at the critical depth and throughout the entire series control section is much lower than other Cincinnati data from the MLRA 114A area. Although the base saturation for Cincinnati soils tends to be in the lower range of an Alfisol, the data from this county is much lower and therefore is considered to be an inclusion. Therefore, Cincinnati soils are no longer taxadjuncts.

Markland Series

The Markland series at the time of the 1984 correlation of this survey was both well drained and moderately well drained. Markland soils in Switzerland County were assigned with a water table, and therefore fit within the concept of the Shircliff series that was established in 1995 for moderately well drained Markland soils. The Markland soils in Switzerland County are taxadjuncts, and will be re-correlated to the Shircliff series in the next maintenance or update of this survey.

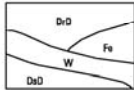
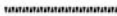




































































Rossmoyne Series

The Rossmoyne soils in this survey fit within the concept and classification of the Nabb Series. Therefore, Rossmoyne soils are taxadjuncts, and will be re-correlated to the Nabb series in the next maintenance or update of this survey.

Switzerland Series

The Switzerland soils described and sampled in this survey do not have contrasting PSC textures. Field notes and lab data for the Switzerland soils in Indiana show this series is both be contrasting (fine-silty over clayey) and not contrasting (fine-silty). Therefore, the same classification issue is considered to be present in this survey area, and Switzerland soils in this survey are no longer a taxadjunct.

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		Drainage end (indicates direction of flow)	
		National, state or province		Unclassified stream	
STANDARD LANDFORM AND MORPHOLOGICAL SURFACE FEATURES		County or parish			
Bedrock escarpment		Minor civil division			
Nonbedrock escarpment		Reservation (Military)			
Gully		Land grant (Optional)			
Levee		Field sheet matchline and headline			
Short steep slope		Public Land Survey System Section Corner Tics			
Blowout					
Borrow pit		GEOGRAPHIC COORDINATE TICK			
Clay spot					
Closed depression		ROAD EMBLEMS			
Gravel pit		Interstate			
Gravelly spot		Federal			
Landfill		State			
Marsh or swamp		LOCATED OBJECTS			
Mine or quarry		Airport (Label only)		Davis Airport or Airstrip	
Rock outcrop					
Sandy spot					
Severely eroded spot					
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Well spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRD	23	
DKS	2		WIA	24	
OVW	3		CGR	25	
VWS	4		HLL	26	
EAS	5		SID	27	
WAS	6		SID	28	
SAS	7		SID	29	
CAP	8		MUC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
DRW	13		MRL	35	
BRD	14			36	
GBR	15			37	
SSR	16		SAM	38	
LBR	17			39	
WOP	18		VSE	40	
SSR	19			41	
CRB	20			42	
CNS	21			43	
FES	22		DWT	44	

Page 13 – Replace the Classification of the Soils table with the following:
Switzerland County, Indiana
Taxonomic Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Avonburg-----	Fine-silty, mixed, active, mesic Aerlic Fragic Glossaqualfs
*Bloomfield-----	Coarse-loamy, mixed, active Lamellic Hapludalfs
Bonnell-----	Fine, mixed, active, mesic Typic Hapludalfs
Carmel-----	Fine, vermiculitic, mesic Chromic Vertic Hapludalfs
Chagrin-----	Fine-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts
Cincinnati-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Cobbsfork-----	Fine-silty, mixed, active, mesic Fragic Glossaqualfs
Dearborn-----	Loamy-skeletal, mixed, superactive, mesic Fluventic Hapludolls
Eden-----	Fine, mixed, active, mesic Typic Hapludalfs
Elkinsville-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Huntington-----	Fine-silty, mixed, active, mesic Fluventic Hapludolls
*Markland-----	Fine, mixed, active, mesic Oxyaquic Hapludalfs
Newark-----	Fine-silty, mixed, active, nonacid, mesic Fluventic Endoaquepts
Pate-----	Fine, illitic, mesic Chromic Vertic Hapludalfs
Pekin-----	Fine-silty, mixed, active, mesic Aquic Fragiudults
*Rossmoyne-----	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Switzerland-----	Fine-silty over clayey, mixed, superactive, mesic Oxyaquic Hapludalfs
Udorthents, loamy---	Udorthents
Weisburg-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Wheeling-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
*Wheeling-----	Coarse-loamy, mixed, active, mesic Ultic Hapludalfs
Woolper-----	Fine, mixed, active, mesic Typic Argiudolls

*Wheeling taxadjunct is for map units WhA and WhE.

SWITZERLAND COUNTY, INDIANA AMENDMENT NO. 1

Approval Signatures and Date

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